

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
30 May 2002 (30.05.2002)

PCT

(10) International Publication Number  
WO 02/042414 A3(51) International Patent Classification<sup>7</sup>: A61K 38/05,  
38/06, 38/07, C07K 5/06, 5/08, 5/10

(21) International Application Number: PCT/US01/43120

(22) International Filing Date:  
19 November 2001 (19.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/249,804 17 November 2000 (17.11.2000) US  
60/297,732 11 June 2001 (11.06.2001) US(63) Related by continuation (CON) or continuation-in-part  
(CIP) to earlier application:US 60/249,804 (CON)  
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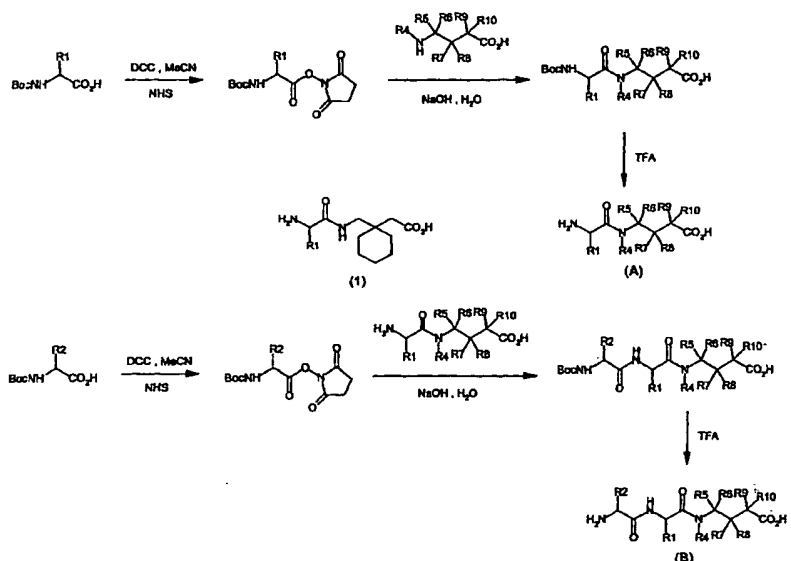
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(US).(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,  
SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
YU, ZA, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: AMINO ACID CONJUGATES PROVIDING FOR SUSTAINED SYSTEMIC CONCENTRATIONS OF GABA ANALOGUES

## Synthesis of Aminoacyl and Other Peptide Derivatives of GABA Analogs



(57) Abstract: This invention is directed to compounds (see Figure 1) that provide for sustained systemic concentrations of GABA analogs following administration to animals. This invention is also directed to pharmaceutical compositions including and methods using such compounds.



European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:  
10 April 2003

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US01/43120

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A61K 38/05, 38/06, 38/07; C07K 5/06, 5/08, 5/10 US CL : 514/18, 19; 530/330, 331; 562/443, 561 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 514/18, 19; 530/330, 331; 562/443, 561 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, CHEMICAL ABSTRACTS search terms: structures of claims 1 and 5, gaba, dipeptide, tripeptide, tetrapeptide, homocarnosine		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,508,728 A (NAGAI ET AL) 02 April 1985, see entire document, especially the Abstract.	1
X	US 4,908,353 A (YAMAMOTO ET AL) 13 March 1990, see entire document, especially claims 2, 3, and 5-7.	1
A	US 5,094,848 A (BRIXNER) 10 March 1992, see entire document, especially column 22, compound 4.	1-8
X	US 5,110,797 A (IENAGA ET AL) 05 May 1992, see entire document, especially the Abstract.	1-4
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"A" document member of the same patent family	
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search	Date of mailing of the international search report	
04 JUNE 2002	02 JUL 2002	
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/48120

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,051,683 A (DEIGIN ET AL) 18 April 2000, see entire document, especially the Abstract.	1-8
X	SU 285929 A (BURIMOVA ET AL) 13 January 1971, see entire document, especially column 3, line 10.	1-4